

Three-inch tight-tolerance industrial CRT with high sensitivity, improved perpendicularity, and a flat face to reduce parallax. Its P1 screen gives green fluorescence with medium persistence for precision instrument viewing.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	10
NOMINAL HEATER	6.3 V / 600 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Cathode Ray

No fixed ratings recorded.

CRT-specific electrode voltages, deflection factors, capacitances, focus/cutoff data, and other published electrical values are stored as section parameters because the promoted section columns are primarily conventional valve fields.

The Du Mont 3WP1 is a tight-tolerance industrial CRT with high sensitivity, improved perpendicularity, and flat face to reduce parallax. This variant uses a P1 screen with green fluorescence and medium persistence.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 Sylvania

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1950 SYLVANIA

Section 1 · Cathode Ray

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Phosphor	P1	—
Focusing Method	Electrostatic	—
Deflecting Method	Electrostatic	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical Anode No. 2 Voltage	2000 V	—



SOURCE OPERATING CONDITIONS

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1960 Du Mont

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1960 DU MONT

Section 1 · Cathode Ray

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	600 mA	—
Focusing Method	Electrostatic text	—
Deflection Method	Electrostatic text	—
Phosphor	P1 text	—
Fluorescence	Green text	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Persistence	Medium text	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1965 Sylvania Electronic Tubes Vol3

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1965 SYLVANIA ELECTRONIC TUBES VOL3

Section 1 · Cathode Ray

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Focusing method	1 code	Electrostatic
Deflection method	1 code	Electrostatic
Deflection factor D1-D2 minimum	62 V/in	—
Deflection factor D1-D2 maximum	76 V/in	—
Deflection factor D3-D4 minimum	43 V/in	—
Deflection factor D3-D4 maximum	52 V/in	—
Useful screen / scan	1 code	2.75-inch minimum useful screen diameter
Deflection factor uniformity maximum	2 %	—
Pattern distortion maximum	2.5 %	At75PercentUsefulScan
Useful scan D1-D2	2.5 in	MinimumTotal
Useful scan D3-D4	2.25 in	MinimumTotal

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode No. 2 / accelerator voltage	1500 V	—
Focusing electrode voltage minimum	247 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Focusing electrode voltage maximum	465 V	—
Grid No. 1 cutoff voltage minimum	-75 V	—
Grid No. 1 cutoff voltage maximum	-45 V	—
Grid No. 1 negative bias maximum	200 V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode to all other electrodes minimum	3 pF	Approximate or published bound
Cathode to all other electrodes maximum	5.7 pF	Approximate or published bound
Grid No. 1 to all other electrodes minimum	4.6 pF	Approximate or published bound
Grid No. 1 to all other electrodes maximum	8.7 pF	Approximate or published bound
Deflection plates 1-2 capacitance minimum	1.7 pF	Approximate or published bound
Deflection plates 1-2 capacitance maximum	3.3 pF	Approximate or published bound
Deflection plates 3-4 capacitance minimum	1 pF	Approximate or published bound
Deflection plates 3-4 capacitance maximum	2 pF	Approximate or published bound



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1971 RCA HB3 Binder 1 of 7

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1971 RCA HB3 BINDER 1 OF 7

Section 1 · Cathode Ray

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Voltage	6.3 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Current – published value 1	0.6	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Current – published value 2	10	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Grid No.1 to all other electrodes – published value 1	4.6	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Grid No.1 to all other electrodes – published value 2	8.7	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Pin 1 Heater – published value 1	1	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Pin 1 Heater – published value 2	8	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Pin 2 Grid No.1	2	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Pin 3 Cathode	3	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Pin 4 Grid No.3	4	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Pin 12 - Heater	12	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
for Focus – published value 1	16 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
for Focus – published value 2	5 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
for Focus – published value 3	31 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Spot – published value 1	-3 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Spot – published value 2	-5 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
age for Focus. 165 to 310 – published value 1	247 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
age for Focus. 165 to 310 – published value 2	465 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
age for Focus. 165 to 310 – published value 3	330 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
age for Focus. 165 to 310 – published value 4	620 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Focused Spot – published value 1	-45 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Focused Spot – published value 2	-75 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Focused Spot – published value 3	-60 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Focused Spot – published value 4	-100 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
u nd eflected focused spot will fall within acircle of 3/16-inch radius – published value 1	3	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
u nd eflected focused spot will fall within acircle of 3/16-inch radius – published value 2	16	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
frequency scanning applied to deflecting electrodes DJ} and OJ 2. For	2	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
give a raster width of 6.9 cm with the grid-No.3 voltage adjusted Lo	6.9 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Under the following conditions: heater voltage of 6.3 volts, grid-No.3	6.3 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
DJ4 electrodes for a deflection of less than 75 per cent of the respec	75	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
SPOT WILL BE DEFLECTED TOWARD PIN 3: LIKEWISE, WITH DJ 3 – published value 1	3	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
SPOT WILL BE DEFLECTED TOWARD PIN 3: LIKEWISE, WITH DJ 3 – published value 2	3	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
GRID MODULATION – published value 1	92	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
GRID MODULATION – published value 2	9131	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
–_ GRID-No.3 VOLTS ADJUSTED FOR FOCUS	3 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
ULTOR VOLTAGE	2500 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
ULTOR INPUT (AVERAGE)	6 mA	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
GRID-No.3 VOLTAGE	1000 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Heater negative with respect to cathode	180 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Heater positive with respect to cathode	180 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-No.1-Circuit Resistance	1.5 mA	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Cutoff•	50 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.

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